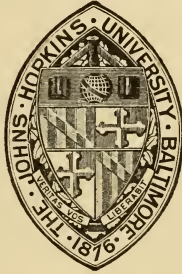


THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND

CONFERRING OF DEGREES

AT THE CLOSE OF THE SEVENTY-FOURTH ACADEMIC YEAR

JUNE 13, 1950



GILMAN HALL TERRACE

AT TEN A. M.

ORDER OF PROCESSION

CHIEF MARSHAL

DON CAMERON ALLEN

Divisions

1. The President of the University,
the Chaplain, Honored Guests,
the Trustees
2. The Faculty
3. The Graduates

Marshals

FRITZ MACHLUP

CLARENCE D. LONG
HOWARD E. COOPER, *Chief*
HANS W. GATZKE
ROBERT H. ROY
WALTER C. BOYER
W. WORTHINGTON EWELL
JOHN M. KOPPER
ACHESON J. DUNCAN
N. BRYLLION FAGIN
RICHARD A. MUMMA
GILBERT F. OTTO
BARNETT COHEN
CHARLES A. BARKER

USHERS

Chief Usher—JACK LEMON

HARRY BURDETTE
JOSEPH CASTAGNA
WILLIAM FONSHILL
THOMAS HARRISON
GARY LINTHICUM

GARLAND MEARS
PHILIP MOON
MAXWELL MUDGE
EMSLIE PARKS
MATHEW RYAN

ORGANIST

DAVID LOWE

The audience is requested to stand as the academic procession moves into the area
and remain standing until after the Invocation.

ORDER OF EXERCISES

I

PROCESSIONAL

Grand March from "Aida" by Verdi

II

INVOCATION

The Reverend VERNON B. RICHARDSON
University Baptist Church

III

GREETINGS TO GRADUATES

President DETLEV W. BRONK

IV

ADDRESS TO GRADUATES

"The University and The Community"
HAMILTON OWENS

V

CONFERRING OF HONORARY DEGREES

Dr. SAMUEL CLAGGETT CHEW — presented by Professor MALONE
Dr. EDWARD LEYBURN MORELAND — presented by Professor THOMPSON
Mr. HAMILTON OWENS — presented by Professor PAINTER
Dr. MERLE ANTONY TUVE — presented by Professor GIBSON

VI

CONFERRING OF DEGREES

Bachelors of Arts — presented by Dean COX
Bachelors of Engineering — presented by Dean KOUWENHOVEN
Bachelors of Science in Engineering
Masters of Science in Engineering
Masters of Engineering
Doctors of Engineering
Bachelors of Science in Business — presented by Dean HAWKINS
Bachelors of Science — presented by Dean HORN
Bachelors of Science in Nursing
Masters of Education — presented by Professor WHITELAW
Doctors of Education
Masters of Science in Hygiene — presented by Dr. STEBBINS
Doctors of Science in Hygiene
Masters of Public Health
Doctors of Public Health
Doctors of Medicine — presented by Dean CHESNEY
Masters of Arts — presented by Professor MALONE
Doctors of Philosophy

VII

BENEDICTION

VIII

RECESSIONAL

"March Aux Flambeaux" by Clark

The audience is requested to remain standing after the Benediction
until the graduates have left the area.

CANDIDATES FOR DEGREES

BACHELORS OF ARTS

- * ABRAHAM NATHAN ABRAMOWITZ, of Baltimore, Md.
- SAMUEL JOSEPH ABRAMS, of Baltimore, Md.
- JAMES FREDERICK ADAMS, of New York, N. Y.
- LOUIS S. ADEZIO, of Chicago, Ill.
- DANIEL ALHIMOOK, of Joppa, Md.
- DAVID EDWARD AMBROSE, of Baltimore, Md.
- CARLTON GEORGE APGAR, of Madison, N. J.
- HENRY SCOTT BAKER, Jr., of Baltimore, Md.
- RALPH ROBINSON BAKER, of Baltimore, Md.
- ALTON PARKER BALDER, of Baltimore, Md.
- HERBERT PANCOAST BANGS, Jr., of Baltimore, Md.
- NATHAN BARK, of Baltimore, Md.
- * ROBERT WAUCHOPE BASS, of Annapolis, Md.
- HARRY FREDERICK BATES, of Hagerstown, Md.
- * ROBERT REED BAUMANN, of Glen Rock, N. J.
- GEORGE LAWRENCE BECKER, Jr., of Paterson, N. J.
- SAMUEL ELI BENESCH, of Baltimore, Md.
- DOUGLAS PATRICK BENOIT, of Enosburg Falls, Vt.
- * RICHARD NORMAN BETZ, of Baltimore, Md.
- ALEXANDER HAMILTON BISHOP, III, of Baltimore, Md.
- MORTON KATZ BLAUSTEIN, of Baltimore, Md.
- EDWIN LOUIS BLAZEK, of Baltimore, Md.
- JOHN RICHARD BOYLAN, of Cynwood, Penn.
- * E. NEAL BOZARTH, Jr., of Takoma Park, Md.
- CARROLL THOMAS BRENNAN, of Baltimore, Md.
- WILLIAM HERBERT BROWN, Jr., of St. Louis, Mo.
- ROBERT GRAHAM BULLOCK, of Arlington, Va.
- ALLAN HENRY BURNS, Jr., of Baltimore, Md.
- * ROBERT KYLE BURNS, III, of Baltimore, Md.
- HENRY HYMAN CAPLAN, of Baltimore, Md.
- MERVYN LEE CAREY, of Wilmington, Del.
- RODNEY BERT CARLSON, of Omaha, Nebr.
- JOHN ANTHONY CARPENTER, of Rockville Center, N. Y.
- ALAN DUKEHART CHESNEY, of Baltimore, Md.
- CORNELL DANIEL CORNISH, of Manhasset, N. Y.
- FRANK ALBERT CORPACI, of Torrington, Conn.
- RICHARD DOUGLAS COX, of Baltimore, Md.
- WILLIAM FRANCIS CROCKETT, of Baltimore, Md.
- ROLAND DALE CUNDIFF, of Baltimore, Md.
- CHARLES EDWARD DAILEY, of Baltimore, Md.
- RUDOLPH CHARLES DANGELMAJER, of Nutley, N. J.
- WARREN EMERY DEDERICK, of Sea Girt, N. J.
- WILLIAM DUNBRACCO DEMPSTER, of Baltimore, Md.
- JOHN HENRY DEUBER, III, of Baltimore, Md.
- G. RICHARD DICKERSON, of Stony Creek Mills, Penn.
- WINFIELD SCOTT DITCH, III, of Riderwood, Md.
- WILLIAM EDWARD DOLAN, of Utica, N. Y.
- JOHN CHARLES DOWER, of New York, N. Y.
- RAYMOND THOMAS DOYLE, of Baltimore, Md.
- PETER RICHARD EHRLICH, of New York, N. Y.
- JOSEPH PAUL ELLIOTT, Jr., of Wilmington, Del.
- JULIAN RUMSEY ELLIS, of Greenwich, Conn.
- JOHN THOMAS FALES, of Baltimore, Md.
- WILLIAM DONNELL FAUGHNAN, of Baltimore, Md.
- * ROBERT FLOTTEMESCH, of Baltimore, Md.
- ROBERT ALLEN FOSTER, of Memphis, Tenn.
- * ROLAND NICHOLAS FRACALOSSI, of Baltimore, Md.
- ALLEN J. FRISTOE, of Baltimore, Md.
- DONALD THEODORE FRITZ, of Baltimore, Md.
- * RUSSELL EUGENE FROST, of Baltimore, Md.
- RICHARD BROWNE FULTON, Jr., of Baltimore, Md.
- JAMES ROBINSON GAMBLE, Jr., of New Orleans, La.
- JOHN MONROE GERWIG, of Baltimore, Md.
- GEORGE MARTIN GILLET, III, of Sparks, Md.
- RICHARD PATRICK GILLIGAN, of Danvers, Mass.
- * NELSON GATES GOODMAN, of Baltimore, Md.
- HOWARD BRUCE GOODRICH, of Baltimore, Md.
- THOMAS WALTER GOUGH, Jr., of Baltimore, Md.
- JAMES EDWARD GRIFFISS, Jr., of Baltimore, Md.
- GEORGE GABRIEL GUIDO, of Hazelton, Penn.
- ROBERT HENRY HAHN, of Baltimore, Md.
- * WILLIAM JACKSON HALL, of Laurel, Md.
- * ROBERT I. H. HAMMERMAN, of Baltimore, Md.
- HUMES HOUSTON HART, of Waynesville, N. C.
- JOHN GILBERT HARTLEY, of Rockville, Md.
- WARREN W. HASSLER, of Baltimore, Md.
- MORRIS BERNARD HAWKINS, of Baltimore, Md.
- JAMES WESTCOTT HAYES, of Baltimore, Md.
- JOHN SAYLOR HAYES, of Williamsport, Penn.
- * ROBERT C. HAYS, of York, Penn.
- JEAN ROBERT LOUIS HERDT, of Silver Spring, Md.
- BENJAMIN HERMAN, of Baltimore, Md.
- WALTER FOCKE HERMAN, of Baltimore, Md.
- WILLIAM ROSS HEVELL, Jr., of McDonogh, Md.
- GRANT BEESON HILL, of Milwaukee, Wis.
- * WILLARD RALPH HILL, of Syracuse, N. Y.
- RICHARD HOCHSCHILD, of Baltimore, Md.
- CHARLES WARREN HODDINOTT, of Baltimore, Md.
- ZEBULON VANCE HOOPER, Jr., of Baltimore, Md.
- REYNOLDS JOSEPH HORPEL, of Baltimore, Md.
- * WILLIAM JOHN HOSTNIK, of Charleroi, Penn.
- * BENJAMIN FULTON HOWARD, Jr., of Union City, Tenn.
- HENRY BARRAUD HUNT, Jr., of Baltimore, Md.
- FRANK ELLIS HUTCHINSON, of Baltimore, Md.
- * THOMAS WORTH JAMISON, III, of Baltimore, Md.
- ROGER CLINTON JONES, of Baltimore, Md.

* Graduating with departmental honors.

- MORTON E. KALUS, of Baltimore, Md.
 LEON HOWARD KAPLAN, of Baltimore, Md.
 FRANCIS ELLS KENNEDY, of Owings Mills, Md.
 WILLIAM DONALD KENNEDY, of Oberlin, Ohio
 JOHN CLEVELAND KIDD, of Baltimore, Md.
 WILLIAM JORDAN KINLING, of Baltimore, Md.
 ROBERT LOUIS KLEIN, of Texarkana, Ark.
 BERTRAM LEONARD KOSLIN, of New York, N. Y.
 WILLIAM ALLEN KRESSLER, of Cheltenham, Penn.
 HENRY WILLIAM KUEHNLE, Jr., of Baltimore, Md.
 * ARTHUR HEROLD LACHENBRUCH, of Washington, D. C.
 QUINTUS ADEN LANGSTAFF, of Nashville, Tenn.
 * JOHN JOSEPH LARDNER, of Baltimore, Md.
 JAMES NEVILLE PEED LAWRENCE, of Portsmouth, Va.
 * FRANK LEAKE, of Sandusky, Ohio
 FREDERICK STRUBE LEE, of Owings Mills, Md.
 JOHN A. LEIPOLD, of Baltimore, Md.
 HILBERT M. LEVINE, of Baltimore, Md.
 CHARLES BURTON LEVITIN, of Norfolk, Va.
 * FREDERICK WIESSNER LIPPS, Jr., of Baltimore, Md.
 JOHN JOSEPH LOMBARDO, of Dover, Ohio
 FRANCIS LYNNWOOD LOVETT, Jr., of Baltimore, Md.
 ROSS GALLOWAY MACAULAY, of Baltimore, Md.
 BERNARD ALLEN MAJOR, of Washington, Penn.
 WILLIAM JOHN MARCK, Jr., of Baltimore, Md.
 WILLIAM MARRIOTT, III, of Baltimore, Md.
 PAUL MAURICE McCULLOUGH, of Salt Lake City, Utah
 ROBERT LEON McKIM, of Baltimore, Md.
 CARL LOUIS MIKOVICH, of Harmarville, Penn.
 JAY JEFFERSON MILLER, of Pikesville, Md.
 ROBERT EUGENE MILLER, of Baltimore, Md.
 * ROBERT CHARLES MINNICK, of Dallas, Texas
 GEORGE LeCOMPTE MITCHELL, of Baltimore, Md.
 JOHN ERWIN MITCHELL, of Manhasset, N. Y.
 * WILLIAM CHALMERS MONTGOMERY, of Detroit, Mich.
 PHILIP COWGILL MOON, of Baltimore, Md.
 EARL HOWARD MORGAN, of Queen Anne, Md.
 * ROBERT EUSTIS MORSBERGER, of Baltimore, Md.
 GEORGE HAMILTON MOWBRAY, of Baltimore, Md.
 ELKAN RIES MYERS, Jr., of Baltimore, Md.
 * PINKNEY LANGLOIS NEAR, of Baltimore, Md.
 ROBERT REID NEILSON, of Baltimore, Md.
 GEORGE ROBERT NORTH, of Baltimore, Md.
 WILLIAM CARSON NORWOOD, of Baltimore, Md.
 SIDNEY OFFIT, of Baltimore, Md.
 RICHARD VERNER ORTEL, of Baltimore, Md.
 ALBERT GIBSON PACKARD, Jr., of Baltimore, Md.
 ROBERT OSCAR PASTERFIELD, Jr., of Baltimore, Md.
 ROBERT URIE PATTERSON, Jr., of Baltimore, Md.
 * ELVER THOMAS PEARSON, of Elizabeth, N. J.
 WILLIAM OWINGS PEIRSON, Jr., of Baltimore, Md.
 * ROBERT JOHN PISTEL, of Baltimore, Md.
 HENRY LEROY PLAINE, of Baltimore, Md.
 ROBERT WESLEY PORTER, of Salisbury, Md.
 WILLIAM MANUEL PRADO, of Brooklyn, N. Y.
 ROBERT CURTIS PREM, of Baltimore, Md.
 * WILLIAM FRANKLIN RAILING, of Baltimore, Md.
 MORRIS RAINESS, of Baltimore, Md.
 CHARLES CAMERON RICHARDS, of Baltimore, Md.
 LEONARD STEVEN ROLNICK, of New York, N. Y.
 JEROLD RUPERT RUBEN, of Washington, Penn.
 * SHERWOOD LAWRENCE SAMET, of W. Caldwell, N. J.
 ROBERT EDWARD SANDELL, Jr., of Baltimore, Md.
 * WILLIAM JASPER SANDO, of Washington, D. C.
 * JAMES FRANK SCHAUBLE, of Erie, Penn.
 JAY LEONARD SCHEER, of Baltimore, Md.
 JOHN CHARLES SCHMIDT, of Baltimore, Md.
 * ARTHUR WALTER SCHMUTZ, of Baltimore, Md.
 FRANK FEIST SCHUSTER, of Danville, Va.
 LEON MURRAY SCHWARTZ, of Baltimore, Md.
 SAMUEL SELZER, of Baltimore, Md.
 RAYMOND ANTHONY SENEĆ, of Bayonne, N. J.
 GEORGE WARREN SETTLE, of Baltimore, Md.
 HERMAN WEAVER SHEFFER, of Baltimore, Md.
 FRANÇOIS PIERRE HENRI SIDOS, of Paris, France
 WILLYS KENT SILVERS, of New York, N. Y.
 ROBERT FRANK SIMPSON, of Baltimore, Md.
 SIDNEY SINGER, of Baltimore, Md.
 FRED BRUCE SMITH, Jr., of Baltimore, Md.
 ALBRECHT FRIEDRICH SOMMER, of Denver, Colo.
 * HELMUT SONNENFELDT, of Baltimore, Md.
 JOSEPH STEVENS, of McAdoo, Penn.
 GEORGE COFFORTH STIERHOFF, of Baltimore, Md.
 * BRUCE BURTON STOLER, of Chicago, Ill.
 FULLER CAMPBELL STRAWBRIDGE, of Baltimore, Md.
 CHARLES LEROY SUMMERS, Jr., of Baltimore, Md.
 KELVIN E. THOMAS, of Hong Kong, China
 JOHN MAYFIELD THOMPSON, of Baltimore, Md.
 STANLEY TOCKER, of Baltimore, Md.
 ROBERT EDWARD TOLSON, Jr., of Washington, D. C.
 RAYMOND SIDNEY TOMPKINS, Jr., of Baltimore, Md.
 JAMES NORCROSS TRONE, of Forest Hills, N. Y.
 HARRY WALTER WEBER, Jr., of Baltimore, Md.
 EUGENE LEE WEBSTER, of Baltimore, Md.
 IRVIN WEINTRAUB, of Baltimore, Md.
 WILLIAM NORMAN WESTERLUND, Jr., of New Canaan, Conn.
 EUGENE OVERBEY WIGGS, of Washington, D. C.
 ROBERT GRANTHAM WRIGHT, of Waterville, Ohio
 CLIFTON KREBS YEARLEY, Jr., of Baltimore, Md.
 JOHN ROBERT YODER, of Bellevue, Ohio
 ROBERT ENGLE ZADEK, of Mt. Vernon, N. Y.

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GRADUATING WITH GENERAL HONORS

ABRAHAM NATHAN ABRAMOWITZ	ROBERT I. H. HAMMERMAN	JAMES NEVILLE PEED LAWRENCE
ROBERT VAUCHOPE BASS	WILLIAM JOHN HOSTNIK	PINKNEY LANGLOIS NEAR
ROBERT REED BAUMANN	THOMAS WORTH JAMISON, III	SHERWOOD LAWRENCE SAMET
RICHARD NORMAN BETZ	ARTHUR HEROLD LACHENBRUCH	ARTHUR WALTER SCHMUTZ
ROBERT KYLE BURNS, III	JOHN JOSEPH LARDNER	BRUCE BURTON STOLER
ROLAND NICHOLAS FRACALOSS		

* Graduating with departmental honors.

BACHELORS OF ENGINEERING

THEODORIC BOLLING ALFRIEND, JR., of Baltimore, Md.
 THOMAS BERNARD APPEL, of Baltimore, Md.
 BERNHARD HENRY BAAKE, III, of Baltimore, Md.
 GEORGE DEWEY BAILEY, JR., of Galesville, Md.
 CARROLL MARLIN BARRACK, of Baltimore, Md.
 IRVING THOMAS BASIL, of Baltimore, Md.
 MYRON WILLIAM BELAGA, of Baltimore, Md.
 RAYMOND HOWARD BENNIGHOF, of Westminster, Md.
 WALTER HARRY BIDDLE, of Baltimore, Md.
 KENNETH DUFF BITTER, of Towson, Md.
 ROBERT WILLIAM BROKAW, of Mountainside, N. J.
 CHARLES HENRY BRUNSMAN, JR., of Baltimore, Md.
 JOSEPH EMERSON CARTER, of Birmingham, Ala.
 ALBERT NORRIS CHANDLER, JR., of Wilmington, Del.
 MARC MITCHELL CHASSON, of Baltimore, Md.
 AMBROSE JOHN CHLADA, JR., of Baltimore, Md.
 ROBERT RICHARD CHRISTY, of Baltimore, Md.
 EDWARD O'NEILL COLE, of Baltimore, Md.
 THOMAS JOSEPH COLLINS, JR., of Baltimore, Md.
 RAYMOND CHARLES DANNETTEL, JR., of Baltimore, Md.
 MALCOLM GREGORY DENTON, JR., of Baltimore, Md.
 RICHARD FREDERICK DEPKIN, of Baltimore, Md.
 WILLIAM JOSEPH DEVEREAUX, of Baltimore, Md.
 WALTER ORAM DOELLER, JR., of Towson, Md.
 JOHN WILLIAM DRENNING, of Frederick, Md.
 WILLIAM OTTO DULLING, of Hanover, Penn.
 WILLIAM HANCKER DUQUETTE, of Baltimore, Md.
 ROBERT ALBERT ECKARD, of Baltimore, Md.
 JOHN EUGENE ECKENRODE, of Baltimore, Md.
 RICHARD IVAN ENSMINGER, of Harrisburg, Pa.
 WILLIAM CARL EPPERS, JR., of White Hall, Md.
 SHELDON IRVIN EULER, of Baltimore, Md.
 ALVIN ROBERT EWING, of Salem, Ore.
 ARTHUR GORDON FOSTER, of Baltimore, Md.
 EARLE SHERMAN FREEDMAN, of Baltimore, Md.
 DONALD GEORGE FREY, of Baltimore, Md.
 JAMES LAMONT GARRITY, of Baltimore, Md.
 ALLEN FRANCIS GATES, of West New York, N. J.
 NELSON L. GILLISPIE, of Baltimore, Md.
 EDWIN FIVEL GOLDSTEIN, of Baltimore, Md.
 CARROLL LEE GOUGH, of Baltimore, Md.
 WILLIAM BINKLEY GREEN, of Hagerstown, Md.
 CLAUDE WILLIAM GREGORY, JR., of Baltimore, Md.
 CHARLES DAVID HAACKE, of Baltimore, Md.
 KENNETH MATHEW HAENSLE, of Baltimore, Md.
 BURRIS HANLEY, of Baltimore, Md.
 KENNETH ROLAND HANNAHS, of Baltimore, Md.
 HAROLD JOSEPH HARMON, of Baltimore, Md.
 JOHN MARKWOOD HARP, of Baltimore, Md.
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 RUSSELL T. HOLLINGSWORTH, of Baltimore, Md.
 JOHN BRAZIER HOWELL, of Alna, Maine

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 NORRIS BENJAMIN IDOV, of Baltimore, Md.
 EUGENE ALBERT JACOBS, of Baltimore, Md.
 ROBERT HAROLD JONES, of Bladensburg, Md.
 BERNARD FRANCIS KALLAS, of Leola, S. D.
 JOHN EDWARD KEIGLER, of Baltimore, Md.
 HARRY NEVIN KELLER, of Hughesville, Penn.
 ALAN LEE KISTLER, of Baltimore, Md.
 FRANK ANTHONY KNECHT, JR., of Baltimore, Md.
 MARK ROBERT KULINA, of Kingston, Penn.
 ROBERT C. LANG, of Baltimore, Md.
 RINO RAFFAEL LASORSA, of Baite, Vt.
 CHARLES LINCOLN LAVERY, of Salisbury, Md.
 URBAN EDWIN LEIMKUEHLER, of Baltimore, Md.
 GEORGE RUSSELL LEWIS, JR., of Baltimore, Md.
 JOSEPH EDWIN LIDIAK, of Lansdowne, Penn.
 CHARLES MADISON LLEWELLYN, of Baltimore, Md.
 CHARLES RICHARD LOVEACE, JR., of Baltimore, Md.
 WILLIAM HUGH LUCAS, of Baltimore, Md.
 LEE SMITH MAGNESS, of Bel Air, Md.
 LEONARD VERNON MALTHAN, JR., of Baltimore, Md.
 HARLAN FRANCIS MANWEILER, of Windsor, Colo.
 WILLIAM JOSEPH MARINER, of Baltimore, Md.
 LUTHER WOODBURY MARTIN, of Nashua, N. H.
 JOHN ALLEN MARX, of Hyattsville, Md.
 GEORGE WARDELL MAXWELL, of Baltimore, Md.
 EUGENE BISCOE MCCORD, of Baltimore, Md.
 CHARLES OWEN MCKENZIE, JR., of Baltimore, Md.
 DANIEL STEPHEN MCNULTY, of West Englewood, N. J.
 RONALD MOFFITT MERGENTHALER, of Baltimore, Md.
 GEORGE KNOX MILES, of Princess Anne, Md.
 WILLIAM BALLARD MILES, JR., of Princess Anne, Md.
 ARNE BENGT MOLANDER, of Chevy Chase, Md.
 GEORGE KARL MUNDER, of Baltimore, Md.
 JOHN BRYARLY MUNNIKHUYSEN, of Baltimore, Md.
 HARWELL THOMAS NEAVITT, of Baltimore, Md.
 ROBERT NELSON NICODEMUS, JR., of Walkersville, Md.
 JAMES FRANCIS O'NEILL, of Bel Air, Md.
 ROBERT JARVIS OSBORNE, of Baltimore, Md.
 CHARLES LEONARD PADGETT, of Baltimore, Md.
 DAVID PENT, of New York, N. Y.
 WALTER LEO PARR, JR., of Baltimore, Md.
 DONALD JOSEPH PLANTHOLT, of Baltimore, Md.
 ROBERT ROY PORTMESS, of Baltimore, Md.
 CHARLES ALBERT POWELL, of Baltimore, Md.
 WILLIAM JOHN PRIBYL, of Baltimore, Md.
 ALBERT HOWARD RACITI, of Baltimore, Md.
 JOHN RIDER RENSHAW, of Centreville, Md.
 ALBERT CHARLES REYMAN, of Baltimore, Md.
 THOMAS NORRIS RIDGAWAY, JR., of Baltimore, Md.
 CHARLES ROBERT RIGGOTT, of Baltimore, Md.
 EUGENE AUGUSTUS ROCHE, of Baltimore, Md.

JESSE ROSENBERG, of Baltimore, Md.
RAY RONALD RUDOLPH, of Baltimore, Md.
ALVIN MORTON SANDLER, of Baltimore, Md.
OSCAR IVAN SCHABB, of Baltimore, Md.
HARRY TYLER SCHULTZ, of Baltimore, Md.
FREDERICK ISADORE SCOTT, JR., of Baltimore, Md.
JAMES HILDEBRANDT SELLORS, of Baltimore, Md.
FRANK J. SENFT, of Baltimore, Md.
FLOYD ELLIS SHAFFER, of Bethlehem, Penn.
NORMAN SIMPSON, of Baltimore, Md.
JAMES FRANCIS SMITH, JR., of Sykesville, Md.
DONALD WILLIAM STOFFEL, of Baltimore, Md.
ROLAND PATTERSON SWANK, of Baltimore, Md.
RICHARD SAMUEL TANKIN, of Baltimore, Md.
BOYD CARVEL TAYLOR, of Baltimore, Md.
CAREY HOWELL TAYLOR, of Baltimore, Md.
DAVID REESE THOMAS, of Baltimore, Md.
ROBERT NATHANIEL THOMPSON, of Baltimore, Md.
RICHARD TREHERNE TOLLEY, of Baltimore, Md.
ROBERT TALBOTT TOWNER, of Baltimore, Md.
RICARDO TREJOS, of San José, Costa Rica

DONALD WILLIAMS TUCKER, of Baltimore, Md.
WILBUR PAUL ULLE, of Baltimore, Md.
WILLIAM JOSEPH VITEK, of Baltimore, Md.
GEORGE FREDERICK VOGT, JR., of Baltimore, Md.
GEORGE MARTIN WALTER, of Baltimore, Md.
WILLIAM MAGRUDER WATERS, of Baltimore, Md.
THOMAS EATON WATSON, of Baltimore, Md.
CHARLES MERVIN WEANT, of Hagerstown, Md.
FRED GORDON WEIGHART, of West Englewood, N. J.
GEORGE EARL WENZEL, of Baltimore, Md.
CHARLES GREGORY WERNER, of Baltimore, Md.
MAX NICHOLAS WIENER, of Baltimore, Md.
GORDON HARRY WILL, of Baltimore, Md.
HOWARD THOMAS WILLIAMS, of Baltimore, Md.
LOUIS HENRY WINDSOR, of Baltimore, Md.
JOSEPH JAMES WITTE, of Baltimore, Md.
WALTER EDGAR WOODFORD, JR., of Centreville, Md.
ROBERT LEE YEAGER, of New York, N. Y.
HERMAN FRANK ZARAS, JR., of Baltimore, Md.
THOMAS FRANKLIN ZINK, of Baltimore, Md.

(145)

GRADUATING WITH HONOR

JOSEPH EMERSON CARTER
WILLIAM BINKLEY GREEN
ALAN LEE KISTLER
URBAN EDWIN LEIMKUHNER
WILLIAM JOSEPH MARINER

EUGENE BISCOE MCCORD
RONALD MOFFITT MERGENTHALER
WILLIAM BALLARD MILES, JR.
RICHARD SAMUEL TANKIN
LOUIS HENRY WINDSOR

ROBERT LEE YEAGER

BACHELORS OF SCIENCE IN AERONAUTICAL ENGINEERING

JOHN NORMAN FRESH, of Bethesda, Md.
STEVEN HERMAN ZELUBOWSKI, of Baltimore, Md.

ROBERT LINSLEY ZOUCK, of Baltimore, Md.

(3)

BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING

JAMES PATRICK COYNE, of Baltimore, Md.
GILBERT EARL FILLER, of Baltimore, Md.

BRUCE ANDREW GRAYBEAL, of Wharton, N. J.
MERTON DUNTON MEARS, of Baltimore, Md.

(4)

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

JOSEPH PAUL ALFONSI, of Baltimore, Md.
WILLIAM CHARLES DEWITZ, of Baltimore, Md.

CHARLES SPENCER MCCUBBIN, of Baltimore, Md.

(3)

GRADUATING WITH HONOR

CHARLES SPENCER MCCUBBIN

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

WALTER WADE BROWN, of Baltimore, Md.
WILBUR BERNARD DONAT, of Baltimore, Md.

WILLIAM HENRY ZEIDLER, of Baltimore, Md.

(3)

GRADUATING WITH HONOR

WILBUR BERNARD DONAT

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

WILLIAM CHARLES ROSEN, of Baltimore, Md.

(1)

MASTERS OF SCIENCE IN ENGINEERING

WITH TITLES OF ESSAYS

- JOEL IVAN ABRAMS, of Baltimore, Md., B.E. The Johns Hopkins University, 1949. Civil Engineering.
A Grid Analogy for Analyses of Flat Plates.
- THEODORE MICHAEL ANDRIOTIS, of Baltimore, Md., B.E. The Johns Hopkins University, 1947. Sanitary Engineering.
Clean Streets.
- JOSE BALLESTER, of Buenos Aires, Argentina, B.S. Harvard College, 1949. Chemical Engineering.
Variation of Mechanical Properties in Fiberglass Mat Polyester Laminates as a Function of Fiber Length.
- JAMES ANDREW BEVERIDGE, of Vancouver, B. C., Canada, B. A. Sc. University of British Columbia, 1947. Sanitary Engineering.
Permeability of Filter Cloths.
- JAMES THOMAS BLANDFORD, JR., of Madison, Wis., B.S. United States Military Academy, 1944. Electrical Engineering.
Electronic Semiconductors.
- ROBERTO REDONDO BUSTAMANTE, of El Paso, Tex., B.S. Texas College of Mines and Metallurgy, 1949. Sanitary Engineering.
A Study of the Control of Ground Water Resources.
- JAMES BONIFACE CAMPBELL, of Washington, D.C., B.S. United States Military Academy, 1944. Aeronautics.
Development and Construction of a Wooden Shock Tube.
- ERIC PAUL CIZEK, of Baltimore, Md., B.E. The Johns Hopkins University, 1948. Chemical Engineering.
A Study of the Effect of Particle Size of a Filler on the Flexural Strength of a Cold Molded Material.
- DONALD VANCE COX, of Farragut, Iowa, B.S. United States Naval Academy, 1943. Electrical Engineering.
Solution of Aperture Distribution for a Given Radiation Field Pattern.
- ROBERT WYNTER DAVIES, of New Orleans, La., B.S. in M. E. Texas Agricultural and Mechanical College, 1947. Mechanical Engineering.
A Gas Turbine Drive for the House Generator of a Steam Power Station Utilizing Its Exhaust as Preheated Air to the Steam Generator.
- GEORGE ROLAND DEHOFF, JR., of Baltimore, Md., B.E. The Johns Hopkins University, 1948. Chemical Engineering.
The Determination of the Specific Heats of Certain Plastic Materials.
- LEONARD DRENNAN, JR., of Monkton, Md., B.S. Massachusetts Institute of Technology, 1942. Aeronautics.
Fatigue Problems in Aircraft.
- JAMES WILKIE DUNHAM, of Washington, D. C., B.S. United States Military Academy, 1944. Aeronautics.
Stability of a Vortex Ring.
- WILLIAM LEONARD FLOCK, of El Paso, Tex., B.S. in M. E. Texas Agricultural and Mechanical College, 1947. Mechanical Engineering.
Storage of Thermal Energy.
- PAUL DAVID FLYNN, of Baltimore, Md., B.E. The Johns Hopkins University, 1948. Mechanical Engineering.
Elastic Waves in a Bar.
- ROBERT THOMAS FRANZEL, of Baltimore, Md., B.S. in E. E. Virginia Polytechnic Institute, 1938; M.S. in E. E. Massachusetts Institute of Technology, 1947. Aeronautics.
Laminar Stability in the Two Dimensional Wake.
- NORMAN JOHN GOODE, of Vancouver, B. C., Canada, B. A. Sc. University of British Columbia, 1941. Sanitary Engineering.
The Aeration of Water by Means of Jets.
- JOHN WILLIAM GORE, JR., of Baltimore, Md., B.E. The Johns Hopkins University, 1948. Electrical Engineering.
The Grounding of Power System Neutrals.
- WALTER RAWLINS HARRIS, of Hamlet, N. C., B.S. United States Military Academy, 1944. Mechanical Engineering.
A Study of a System of Two Degrees of Freedom Subjected to Pulse Loadings.
- CARROLL DELAUNEY HENNICK, of Baltimore, Md., B.E. The Johns Hopkins University, 1948. Electrical Engineering.
Direct Current Vacuum Tube Amplifying Systems.
- VANCE ROBERT HUDGINS, of Spartanburg, S. C., B.S. United States Naval Academy, 1941. Electrical Engineering.
Microwave Bridges.
- CECIL HALE HULL, of Baltimore, Md., B.S. United States Naval Academy, 1945. Sanitary Engineering.
Photosynthetic Oxygen Production in Baltimore Harbor.
- ROBERT HUGH HURLLOW, of Tacoma, Wash., B.S. in E. E. University of Washington, 1943. Electrical Engineering.
Dielectric Behavior of Ferroelectric Crystals.
- PAUL IRIBE, of Baltimore, Md., B. A. Bowdoin College, 1948. Aeronautics.
Some Properties of an Electronic Model of Turbulence.

- NORMAN ERVIN JACKSON, of Baltimore, Md., B. S. in C. E. Vanderbilt University, 1935. Sanitary Engineering.
The Use of the Salt Dilution Method for Measuring Stream Flows Under Low Head and Discharge.
- JAMES POLLOCK JAMISON, of Pittsburgh, Penn., B. S. United States Naval Academy, 1941. Electrical Engineering.
A Magnetic Direct-Current Amplifier.
- MARTIN HENRY JOHNSON, of Warren, Penn., B. S. in M. E. Duke University, 1943. Industrial Engineering.
The Application of Industrial Engineering to Clerical Work.
- CHARLES MYERS JONES, JR., of Trenton, N. J., B. S. United States Military Academy, 1943. Mechanical Engineering.
The Motion of a Single Degree of Freedom System under the Influence of a Linearly Damped Moving Foundation.
- ARNOLD BERNARD JOSEPH, of Nashville, Tenn., B. E. Vanderbilt University, 1948. Sanitary Engineering.
Natural versus Artificial Fibers as the Filter Media for the Vacuum Filtration of Sewage Sludge.
- STANLEY GERICH KADALA, JR., of Mayaguez, Puerto Rico, B. S. in C. E. College of Agriculture and Mechanic Arts, University of Puerto Rico, 1948. Civil Engineering.
The Economic Justification of Urban Expressways.
- WILLIAM HENRY KIRBY, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Industrial Engineering.
Work Measurement in Jobbing Industries.
- WERNER KLOETZLI, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Civil Engineering.
Improvement of the Slums in Baltimore.
- YUAN-I LI, of Taiwan, China, B. C. E. National Tsing Hua University, 1937. Sanitary Engineering.
A Study of the High Rate Trickling Filter.
- HENRY MAXWELL LUMMIS, III, of Baltimore, Md., B. S. The Johns Hopkins University, 1949. Civil Engineering.
Design Curves for Anchored Steel Sheet Piling.
- WILBUR LUCIAN MANLEY, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Electrical Engineering.
The Development of Thermoelectric Generators.
- FRANKLIN ARCHIE MARTINE, of Dallas, Tex., B. S. in C. E. Southern Methodist University, 1932. Sanitary Engineering.
Design, Construction, and Calibration of a Simple Unit to Measure Vertical Temperature Distribution in Water.
- JERROLD MARK MICHAEL, of Washington, D. C., B. C. E. George Washington University, 1949. Sanitary Engineering.
The Effect of Air Velocity on Pollen Density Determination Using the Standard Gravity Air Sampling Device.
- CHARLES BURKE MUDD, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Civil Engineering.
Model Study by Interferometer Methods.
- ALAN THEODORE OSSERMANN, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.
Performance of the Thickener Press on Slurries Which Form Incompressible Cakes.
- IVER ARTHUR PETERSON, of Washington, D. C., B. S. United States Military Academy, 1938. Electrical Engineering.
Conduction of Direct Current through Sliding Contacts. Applications.
- LEONARD TOFTE POOL, of Baltimore, Md., B. E. The Johns Hopkins University, 1942. Chemical Engineering.
The Surface Area of Vermiculite.
- NORMAN PRECODA, of Baltimore, Md., B. S. Michigan State College, 1941. Aeronautics.
The Aerodynamic Behavior of an Airfoil with Accelerated Speed.
- THADDEUS JOSEPH PULA, of Baltimore, Md., B. E. E. Villanova College, 1947. Electrical Engineering.
Conduction of Direct Current through Sliding Contacts.
- SHELDON IVAN RAMBO, of Baltimore, Md., B. S. in E. E. State College of Washington, 1933. Electrical Engineering.
Automatic Frequency Control of Industrial Radio Frequency Generators.
- EDWIN LEITH RUPPERT, of Seattle, Wash., B. S. in C. E. University of Maryland, 1936. Sanitary Engineering.
Types of Organisms Found in Self Service Automatic Washing Machines.
- BRUCE ALBERT RUSHLOW, of Saginaw, Mich., B. S. United States Naval Academy, 1943. Electrical Engineering.
An Experimental Determination of the Low-Level Characteristics of IN23B Crystals.
- ROBERT BARRETT RUSS, of Washington, D. C., A. B. University of North Carolina, 1940; B. C. E. George Washington University, 1949. Sanitary Engineering.
Phosphate Regeneration in Treated Sewage.
- ROBERTO J. SALAZAR, of El Paso, Tex., B. S. Texas College of Mines and Metallurgy, 1949. Sanitary Engineering.
A Study of Water-Borne Typhoid Fever Outbreaks.
- HAROLD BLACKWOOD SLOAN, of Washington, D. C., B. S. United States Military Academy, 1944. Aeronautics.
Development and Construction of a Wooden Shock Tube.
- KNUT K. SORTEBERG, of Hallingdal, Norway, B. E. The Johns Hopkins University, 1949. Civil Engineering.
The Capacity of Depressed Curb Opening Inlets for Storm Sewers.
- FREDERICK CLAYTON SPANN, of Montgomery, Ala., B. S. United States Military Academy, 1943. Electrical Engineering.
High Current Electric Arc and High Speed Electrode Phenomena.
- JOSEPH SPERAZZA, of Aberdeen, Md., B. M. E. Cooper Union, 1941. Mechanical Engineering.
The Effect of Atmospheric Pressure and Temperature on Shock from Explosives.

LADDIE L. STAHL, of Terre Haute, Ind., B. S. in C. E. Purdue University, 1942. Aeronautics.

The Velocity Field Induced by the Wings of a Supersonic Aircraft.

HOWARD S. STRAUSSER, JR., of Reading, Penn., B. S. in C. E. Virginia Military Institute, 1942. Civil Engineering.

A Method for Determining Stresses in a Rigid Frame by the Use of Models.

FRANK JOSEPH TROMBETTA, of Baltimore, Md., B. S. in C. E. Georgia Institute of Technology, 1943. Civil Engineering.

Analysis of a Rigid Space Frame.

CLAUDE HERMAN WELCH, of Galena Park, Tex., B. S. United States Naval Academy, 1941. Electrical Engineering.

Design and Operation of the Blocking Oscillator.

ROBERT HASLEY WETTACH, of Chapel Hill, N. C., B. S. Stevens Institute of Technology, 1947. Mechanical Engineering.

An Analysis of a Modified Steam Cycle.

ALBERT JOHN WETZEL, of New Orleans, La., B. E. Tulane University, 1939. Aeronautics.

Extension of a Laminar Flow in a Boundary Layer of Means of Suction.

THOMAS A. WILD, of Timonium, Md., B. E. E. Clarkson College of Technology, 1944. Electrical Engineering.

A Temperature Measuring System Using Thermocouples.

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MASTERS OF ENGINEERING

WITH TITLES OF ESSAYS

RICHARD EDWARD FARRAR, of Baltimore, Md., B. S. Virginia Polytechnic Institute, 1938. Chemical Engineering.

A Study of the Adsorption of Malachite Green from Aqueous Solution by Various Iron Oxides.

WALTER G. FINCH, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1940. Mechanical Engineering.

A Study of Fatigue of Steels Due to Repeated Applications of Mechanical Stresses in the Finite Region.

FRANK S. RUDD, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Chemical Engineering.

Application of the High Frequency Oscillator to Chemical Analysis.

(3)

DOCTORS OF ENGINEERING

WITH TITLES OF DISSERTATIONS

MAX GEORG BODMER, of Zurich, Switzerland, Dipl. El. Ing. Federal Institute of Technology, Zurich, Switzerland, 1947. Electrical Engineering.

Superconducting Niobium Nitride at Microwave Frequencies.

DODD STEWART CARR, of Baltimore, Md., B. S. Loyola College, 1945; M. S. E. The Johns Hopkins University, 1948. Chemical Engineering.

Thermogalvanic Potentials of Nickel.

IRVIN GLASSMAN, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.

Determination of the Thermal Conductivity of Air at High Temperatures.

WILBERT MITCHELL LAIR, of Baltimore, Md., B. S. Purdue University, 1945; M. E. The Johns Hopkins University, 1949. Chemical Engineering.

The Inhibition of Styrene Oxidation and Polymerization by Tertiary Butyl Catechol.

CARVILLE V. MACE, JR., of Baltimore, Md., A. B. The Johns Hopkins University, 1938; M. Ch. E. 1945. Chemical Engineering.

The Catalytic Hydration of Ethylene in the Vapor Phase.

SHIGEO OKUBO, of Honolulu, Hawaii, B. S. University of Hawaii, 1937; M. S. 1939; M. S. E. The Johns Hopkins University, 1948. Civil Engineering.

Deflections of Grillage Beams and Slabs.

CHARLES BENJAMIN OLER, of Annapolis, Md., B. S. in E. E. University of Pennsylvania, 1927; M. S. in E. E. 1930. Electrical Engineering.

The Use of Sphere Gaps at Radio Frequencies.

WILLIAM T. SACKETT, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1941. Electrical Engineering.

Contact Resistance.

WENDELL BURLEY SELL, of Baltimore, Md., B. S. United States Military Academy, 1940; M. S. E. The Johns Hopkins University, 1948. Electrical Engineering.

A Microwave Oscillograph.

EDWARD WENK, JR., of Bethesda, Md., B. E. The Johns Hopkins University, 1940; M. Sc. Harvard University, 1947. Civil Engineering.

A Theoretical and Experimental Investigation of a

Dynamically Loaded Ring Having Radial Elastic Support.

IRVIN WOLOCK, of Baltimore, Md., B. E. The Johns Hopkins University, 1943; M. E. 1949. Chemical Engineering.

Permeability Studies of Linseed Oil Films.

(11)

BACHELORS OF SCIENCE IN BUSINESS

FRANK ABRAHAMS, of Baltimore, Md.
 GEORGE SPINDLER ABURN, of Baltimore, Md.
 BENJAMIN JOYNES AMES, of Bishop, Md.
 RALPH F. BAKER, of Baltimore, Md.
 DONNELL EDWARD BALMERT, of Baltimore, Md.
 ROBERT DIXON BARTLETT, JR., of Cockeysville, Md.
 LEO VINCENT BARRY, JR., of Baltimore, Md.
 WILLIAM IRWIN BASS, JR., of Baltimore, Md.
 JOHN LEE BASTRESS, of Baltimore, Md.
 WILLIAM B. BEGGS, of Glen Ridge, N. J.
 FRED BERNHARDT, of Baltimore, Md.
 GORDON MORRIS BETZ, of Baltimore, Md.
 FRANCIS LORIN BROWN, of Baltimore, Md.
 LLOYD MILLARD BUNTING, of Baltimore, Md.
 WILLIAM FREDERICK BUTTS, of Baltimore, Md.
 HARRY J. CASEY, JR., of Garrison, Md.
 FRANCIS CHARLES CHLAN, JR., of Baltimore, Md.
 JONATHAN WILLIAM CLAUSEN, of Baltimore, Md.
 RICHARD ALISON CLAYTON, of Berkeley, Calif.
 JOHN LIVINGSTON CODLING, of Baltimore, Md.
 ARTHUR N. CONNER, JR., of Baltimore, Md.
 WILLIAM ROYALL CRONIN, of Aberdeen, Md.
 STANLEY DONALD DAWSON, of Baltimore, Md.
 BRIAN LEONARD DEVAN, of Baltimore, Md.
 JOHN FRANCIS DEITZ, of Baltimore, Md.
 PHILIP LAWSON FOGARTY, of Baltimore, Md.
 ELIAS STEWART FRIANT, JR., of Baltimore, Md.
 DAVID HEDLESTON FULTON, JR., of Baltimore, Md.
 THOMAS LUCIEN GAUDREAU, of Baltimore, Md.
 WILLIAM BAYNE GIBSON, of Atlanta, Ga.
 MELVIN MANDEL GLASS, of Baltimore, Md.
 PAUL MATTHEW GRIBER, of Baltimore, Md.
 LEO JEROME GUGERTY, JR., of Baltimore, Md.
 WILBUR KIRACOFE HAMMAKER, of Frederick, Md.
 THEODORE JOHN HANGARTER, of Baltimore, Md.
 DONALD GERTING HANSON, of Baltimore, Md.
 CHAUNCEY BROOKS HARRYMAN, of Baltimore, Md.
 JOHN ALFRED HATFIELD, JR., of Brooklandville, Md.
 HAROLD S. HILL, JR., of Baltimore, Md.
 EUGENE LEONARD JONES, of Baltimore, Md.

OWEN HANCE JONES, of Baltimore, Md.
 SAMUEL JONES, JR., of Baltimore, Md.
 HOWARD MILBOURNE KELLEY, of Salisbury, Md.
 ROBERT EDWARD KETCHAM, of New Rochelle, N. Y.
 CHESTER TOME KIMBLE, JR., of Port Deposit, Md.
 RUSSELL DAVID KISHBAUCH, of Baltimore, Md.
 OTTO KOSCIUSKO LEBRON, JR., of Ardmore, Penn.
 GILBERT BARRY LESSENCO, of Baltimore, Md.
 MORTON H. MADDEN, of Baltimore, Md.
 MALCOLM D. MAHR, of Baltimore, Md.
 JOSEPH JAMES MARSIGLIA, of Baltimore, Md.
 FREDERIC REYNOLDS MAXCY, of Baltimore, Md.
 JAMES ELLIOTT MCCARTY, JR., of Baltimore, Md.
 CHARLES JEROME MELLENDICK, of Baltimore, Md.
 HARRY ROBERT MELMAN, of Baltimore, Md.
 PATRICK MELVIN MERRITT, of Ashland, Ohio
 ALFRED ANDREW MEYER, of Long Branch, N. J.
 ROBERT WARREN MILBANK, of Rockville Center, N. Y.
 JOHN THOMAS MURPHY, II, of Baltimore, Md.
 CHARLES ALBERT NICODEMUS, of Walkersville, Md.
 REED DAVID O'CONNELL, of Baltimore, Md.
 JOSEPH WILLIAM PIPPS, III, of Baltimore, Md.
 WALTER CORNELIUS POHLHAUS, JR., of Baltimore, Md.
 WILLIAM CONRAD PRINN, JR., of Baltimore, Md.
 BEVERLY COOK RICH, of Baltimore, Md.
 CHASE RIDGELY, JR., of Baltimore, Md.
 HARRY LEROY RING, JR., of Baltimore, Md.
 JAMES BURRELL ROBERTSON, of Baltimore, Md.
 MORTON HAROLD RODBELL, of Baltimore, Md.
 HERBERT IRWIN ROSENTHAL, of Baltimore, Md.
 NATHAN SCHLOSS, of Baltimore, Md.
 EUGENE HAROLD SCHREIBER, of Baltimore, Md.
 OLIVER DAY SHEPARD, of Baltimore, Md.
 JACK SOLOMON, of Baltimore, Md.
 HARRY VINCENT TIGHE, of Baltimore, Md.
 RICHARD HENRY TURKE, III, of Baltimore, Md.
 LEE PERRY VANCE, of Ridgefield, Conn.
 JUSTIN ANTHONY VITRANO, of Baltimore, Md.
 DALE HOWARD WICHART, of Lincoln University, Penn.
 KENNETH E. WILSON, of Baraboo, Wis.

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GRADUATING WITH HONOR

REED DAVID O'CONNELL
 WILLIAM CONRAD PRINN, JR.

HARRY LEROY RING, JR.
 NATHAN SCHLOSS

BACHELORS OF SCIENCE

PAUL P. ADLER, of Baltimore, Md.	ELLA LEVERING CLARK KUMMER, of Baltimore, Md.
CHARLES GROVER ALBRECHT, of Baltimore, Md.	EOLIN CATHERINE KUPER, of Baltimore, Md.
HAROLD NOEL ARROWSMITH, JR., of Baltimore, Md.	HARRY ALLEN LAUER, of Baltimore, Maryland.
AUDREY ELIZABETH COLLINS BARRETT, of Baltimore, Md.	ROBERT WILLIAM LUMSDEN, of Baltimore, Md.
EMMA TEIPE BASHORE, of Baltimore, Md.	HAZEL DIXON MALLES, of White Hall, Md.
FRANK AUSTIN BEEBE, JR., of Christiansburg, Va.	JOAN EVE MILLER, of Baltimore, Md.
JUNE NANCY BERMAN, of Baltimore, Md.	WILLIAM THOMAS MOOREFIELD, of Baltimore, Md.
HERBERT BIRNBAUM, of Baltimore, Md.	DEBORAH BERTRON MORRISON, of Baltimore, Md.
GUSTAV BLACKETT, of Washington, D. C.	MARJORIE GRAND-GIRARD MYERS, of Baltimore, Md.
CYNTHIA KATHRYN BLAIR, of Chambersburg, Penn.	JACOB NEUBERGER, of Baltimore, Md.
JEROME BOBER, of Baltimore, Md.	ESTELLE HAINES NUTTALL, of Baltimore, Md.
MARY CARBERRY MCSHERRY BOYLE, of Westminster, Md.	PHILIP ANTHONY O'BRIEN, of Baltimore, Md.
ALICE M. ELSTE BROWN, of Baltimore, Md.	EDITH MADELINE OWINGS, of Baltimore, Md.
WILLIAM EDWARD BUCHANAN, of Baltimore, Md.	CALVIN ALBERT PARKER, of Millersville, Md.
GENEVIEVE FRANCES CHAMBERS, of Baltimore, Md.	ADELINE HYATT PARRISH, of Baltimore, Md.
ELIZABETH BENNETT COE, of Baltimore, Md.	BESSIE BOWEN PAYNE, of Baltimore, Md.
SHELDON PHILIP COHEN, of Baltimore, Md.	JOSEPH BRENNON PAYNE, of Baltimore, Md.
MARY EVELYN DITTMAR, of Baltimore, Md.	HELEN PERDUE, of Baltimore, Md.
MARCIA AMELIA ELLIOTT, of Glen Burnie, Md.	LYDIA FRANCES REICH, of Warren, Ohio
WADE MADISON ETCHISON, of Baltimore, Md.	MARION SUTTON RIDENOUR, of Baltimore, Md.
KATHRYN ELISE FITZPATRICK, of Owings Mills, Md.	HENRY JOHN ROSEN, of Baltimore, Md.
BEULAH DIXON FLEMING, of Baltimore, Md.	MAY COFFAY ROBINSON, of Baltimore, Md.
SYLVIA EILEEN FREIMAN, of Baltimore, Md.	ETTA LOUISE RYDEN, of Baltimore, Md.
RUTH ADELE FUGMANN, of Baltimore, Md.	ROSE SAPPERSTEIN, of New York, N. Y.
ALBERT IRWIN FULLER, of Washington, D. C.	PHYLLIS COOPER SCHAEFFER, of Baltimore, Md.
AMY ELIZABETH GATCHELL, of Baltimore, Md.	GEORGETTA SCHENKEL, of Baltimore, Md.
EUGENIA MATELIS GIARDINA, of Baltimore, Md.	PAULINE SCHLAILE, of Baltimore, Md.
LESTER GILMAN, of Baltimore, Md.	ERMA RANSOM SCHNITKER, of Baltimore, Md.
ARTHRINGTON GILPIN, III, of Baltimore, Md.	LEONARD N. SCHUMAN, of Baltimore, Md.
MINNIE BACH GOLDSMITH, of Baltimore, Md.	HELEN DE CHANTAL SILK, of Baltimore, Md.
EMMETT EARL HEARN, of Baltimore, Md.	JEANNE ANDERSON SINEMUS, of Baltimore, Md.
J. LEONARD HIRSCHHORN, of Baltimore, Md.	AARON RONALD SMELKINSON, of Baltimore, Md.
NELVA OTHA HOBBS, of Baltimore, Md.	HARVIENE M. SOINÉ, of Baltimore, Md.
HILDA ZETZER HOFFMAN, of Baltimore, Md.	VIRGINIA DARE SOLLERS, of Lushy, Md.
VIRGINIA BENNETT HURLINE, of Sykesville, Md.	HERBERT JEROME STERN, of Baltimore, Md.
WILSON MARSHALL JOHNSON, of Baltimore, Md.	DOROTHY JANET SWART, of Nyack, N. Y.
HARRY CLINTON JONES, of Baltimore, Md.	HARRY EDWARD SWARTZBAUGH, of Hanover, Penn.
MARIAN ELIZABETH KIZINSKI, of Parkersburg, W. Va.	BERNARD BENJAMIN THIMAN, of Baltimore, Md.
HELEN MARGARET KNOX, of Baltimore, Md.	FRANK CARL ZEICHNER, of Baltimore, Md.
RUTH ELIZABETH KNOX, of Baltimore, Md.	CATHERINE LOUISE ZINK, of Baltimore, Md.

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GRADUATING WITH HONOR

GENEVIEVE FRANCES CHAMBERS
AMY ELIZABETH GATCHELL

HILDA ZETZER HOFFMAN
AARON RONALD SMELKINSON

BACHELORS OF SCIENCE IN NURSING

- | | |
|--|--|
| MILDRED ELIZABETH BARNARD, of Albany, N. Y. | CORA JANE LAWRENCE, of Milwaukee, Wis. |
| MARION LOIS BEE, of Homer N. Y. | F. M. C. MACKIE McCOWN, of Ovalau, Fiji Islands |
| LOLITA CECILIA BEIDELMAN, of Washington, D. C. | JOSEPHINE MOORE McDAVID, of Winchester, Ky. |
| DORIS MAY BENJAMIN, of Tenafly, N. J. | EILEEN MARIE MEACHAM, of Baltimore, Md. |
| GERALDINE BODIE, of Kannapolis, N. C. | SARAH KNIGHT MITCHELL, of Montreal, Que., Canada |
| BETTY JANE BORENSTEIN, of Baltimore, Md. | EVELYN HAGAN PETERS, of Culpeper, Va. |
| ANNA CLAIR, of Berea, Ky. | NANCY LOUISE STAGG, of Lexington, Ky. |
| ARLENE LOUISE GEUDER, of Minneapolis, Minn. | MARY AGNES HULL STEWART, of Cherryville, N. C. |
| I. VIRGINIA GROSECLOSE, of Nebo, Va. | ELEANORE RUTH SUMMERS, of Orchard Lake, Mich. |
| MARY ELIZABETH HARRIS, of Wadsworth, Ohio | ANNETTE THERIAULT, of Washington, D. C. |
| A. VIRGINIA HOWARD, of Sharpsburg, Md. | HELEN WHEELER, of Wayne, Penn. |
| MARTHA L. KENAN, of Pittsburgh, Penn. | RUTH STILZ WHITMORE, of Baltimore, Md. |

(24)

MASTERS OF EDUCATION

WITH TITLES OF ESSAYS

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|---|--|
| DOROTHY MARIE BEATTY, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1944. | MARY RUTH MOUBRAY, of Baltimore, Md., B. S. Teachers College, Columbia University, 1938. |
| JOHN WILBUR BOLLINGER, of Baltimore, Md., A. B. Western Maryland College, 1946. | ANNE MORLOK NOONAN, of Bel Air, Md., B. S. The Johns Hopkins University, 1945. |
| MARGARET THOMPSON BRIDGES, of Baltimore, Md., B. S. College of William and Mary, 1936. | LUCIEN FRANCIS PETERS, JR., of Middle River, Md., B. S. State Teachers College, Towson, Md., 1942. |
| EDGAR ROBERT BROOKS, of Baltimore, Md., A. B. Western Maryland College, 1936. | KATHLEEN SUZANNE STEWART, of Overlea, Md., B. A. State Teachers College, Clarion, Penn., 1945. |
| BESSIE MAY CRONHARDT, of Lutherville, Md., B. S. State Teachers College, Towson, Md., 1944. | HILTON W. WELKOS, of Baltimore, Md., B. Ed. Whitewater College, 1940. |
| RUTH ALLEN GOSNELL, of Granite, Md., B. S. The Johns Hopkins University, 1941. | CHARLES WALTER WHAYTLAND, of Annapolis, Md., A. B. St. John's College, 1925. |
| LEROY HARRY HARDESTY, of Baltimore, Md., B. S. The Johns Hopkins University, 1947. | JOHN P. WHITE, of York, Penn., B. S. State Teachers College, West Chester, Penn., 1942. |
| CLYDE WILLIAM HUETHER, of Glen Arm, Md., B. S. The Johns Hopkins University, 1947. | MILDRED ANNA WINTER, of Baltimore, Md., B. S. The Johns Hopkins University, 1946. |

(16)

DOCTORS OF EDUCATION

WITH TITLES OF DISSERTATIONS

- | | |
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| SISTER MARGARET MARY O'CONNELL, of Baltimore, Md., A. B. Notre Dame of Maryland, 1926; M. A. Catholic University, 1938.
The Educational Contributions of the School Sisters of Notre Dame in America for the Century, 1847 to 1947. | LAVINIA CATHARINE ROOP WENGER, of Westminster, Md., A. B. Western Maryland College, 1914; M. R. E. Bethany Seminary, 1922; A. M. University of Pennsylvania, 1929.
The Preparation of White Teachers for the Secondary Schools in Maryland, 1634 to 1940. |
|--|--|

(2)

MASTERS OF SCIENCE IN HYGIENE

WITH TITLES OF THESES

- LILLIAN GURALNICK, of Brooklyn, N. Y., B. A. Brooklyn College, 1934. Biostatistics.
Job Stability in the Eastern Health District, 1939 to 1947.
- NICHOLAS HAHON, of Brooklyn, N. Y., B. S. Davis and Elkins College, 1948. Bacteriology.
The Effect of Complement on the Neutralization of Eastern Equine Encephalomyelitis Virus.
- ALWILDA LEWIS WALLACE, of Jefferson City, Mo., A. B. University of Missouri, 1937. Bacteriology.
Quantitative Studies of Complement Fixation. Estimation of Complement-fixing Potency of Immune Sera and Its Relation to Antibody Nitrogen Content.

(3)

DOCTORS OF SCIENCE IN HYGIENE

WITH TITLES OF DISSERTATIONS

- WILFORD SHERRILL BAILEY, of Auburn, Ala., D. V. M. Alabama Polytechnic Institute, 1942; M. Sc. 1946. Parasitology.
Studies on the Host-parasite Relations of *Hymenolepis nana* var *fraterna*.
- JUNIOR HAROLD DRUDGE, of Bremen, Ind., D. V. M. Michigan State College, 1943. Parasitology.
Studies on the Absorption and Therapeutic Effectiveness of Arsenamide following Oral Administration in the Treatment of Canine Filariasis.
- DON EDGAR EYLES, U. S. Public Health Service, A. B. Emory University, 1938; M. S. 1939. Parasitology.
Quantitative Studies on Certain Factors Influencing the Development of *Plasmodium gallinaceum* in the Mosquito Host.
- ABDUS SALEEM KHAN, of Hyderabad, Deccan, India, M. B. B. S. Osmania University, 1939. Bacteriology.
Immunological Relationship between Species and Strains of Virulent Treponemes.
- LAWRENCE VERNON SCOTT, of Anthony, Kans., B. A. Phillips University, 1940; M. S. Oklahoma University, 1947. Bacteriology.
Some Antigenic Variations in Influenza Virus.
- FREDERICK JAMES VINTINNER, of Concord, N. H., B. S. University of New Hampshire, 1931; M. P. H. The Johns Hopkins University, 1948. Environmental Medicine.
The Effect of Exposure to Industrial Dusts on Susceptibility to Respiratory Infections.

(6)

MASTERS OF PUBLIC HEALTH

- ANTONIO JOSÉ ABRAMS-P., of Caracas, Venezuela, Doctor of Medicine, Central University, 1946.
- HAMDİ ACAN, of Izmit, Turkey, Doctor of Medicine, University of Istanbul, 1940.
- RAÚL ALÉE (GALAZ), of Santiago, Chile, M. D. University of Chile, 1946.
- GRACE ELIZABETH ALT, of Baltimore, Md., R. N. Johns Hopkins Hospital School of Nursing, 1933; B. S. George Peabody College for Teachers, 1947.
- ANGEL MANUEL AYALA, of Manati, Puerto Rico, B. S. University of Puerto Rico, 1941; M. D. University of Buffalo, 1944.
- RAYMOND FRANK BARNES, of Webster Groves, Mo., B. S. St. Louis University, 1922; M. D. 1924.
- JOSÉ MARTINS DE BARROS, of São Paulo, Brazil, M. D. University of São Paulo, 1944.
- JOSEPH HOWARD BEARD, JR., U. S. Public Health Service, A. B. University of Illinois, 1939; M. D. The Johns Hopkins University, 1943.
- VICTOR ALFREDO BOTTO, of Lima, Peru, M. D. University of San Marcos, 1945.
- JOHN MAXWELL BYERS, of Baltimore, Md., A. B. Johns Hopkins University, 1928; M. D. New York University and Bellevue Hospital Medical College, 1933.
- ZILDA ALMEIDA CARVALHO, of São Paulo, Brazil, Diploma in Nursing, University of Toronto School of Nursing, 1943.

- HSI-CHOW CHEN, of Taipeh, Formosa, China, M. D. Taihoku Imperial University, 1945.
- RALPH FLETCHER DAVIS, of Topeka, Kans., B. S. University of Maryland, 1942; M. D. 1945.
- KAMMUEN DEBMANI, of Bangkok, Siam, M. D. University of Medical Science, 1932; L. L. B. University of Moral and Political Science, 1937.
- BENTOTAGE KARUNARATNA DE SILVA, of Sylverine, Matara, Ceylon, L. M. S. Ceylon University, 1932; D. P. H. London School of Hygiene and Tropical Medicine, 1937.
- FRATIS L. DUFF, U. S. Air Force, B. S. University of Oklahoma, 1933; M. D. 1939.
- ARVID EVJEN, of Oslo, Norway, M. D. University of Oslo, 1943.
- ANDREW CARL FLECK, JR., of Troy, N. Y., M. D. Albany Medical College, 1947.
- JAMES EDWARD GALBRAITH, of Seattle, Wash., B. Sc. University of Washington, 1935; M. D. University of Oregon, 1940.
- FELICE GRAZIANO, of Rome, Italy, M. D. University of Naples, 1939.
- DONALD HARTING, U. S. Public Health Service, B. S. Harvard University, 1943; M. D. 1946.
- JOSÉ ANGEL HERNÁNDEZ MATOS, of Rio Piedras, Puerto Rico, M. D. National University of Mexico, 1934.
- RUTH BORING HOWARD, of Denver, Colo., A. B. Vassar College, 1918; M. D. Columbia University, 1924.
- THOMAS PATRICIAN HUGHES, of New York, N. Y., A. B. Stanford University, 1921; M. A. 1922; Ph. D. Harvard University, 1930.
- CECIL GUY HUPP, of Denton, Md., A. B. Bridgewater College, 1936; M. D. Medical College of Virginia, 1943.
- REMA LAPOUSE, of Washington, D. C., B. S. Boston University, 1937; M. D. 1941.
- GLEN RONALD LEYMASTER, of Salt Lake City, Utah, A. B. University of Nebraska, 1938; M. D. Harvard University, 1942.
- ROMAN LOPEZ FERNANDEZ, of Manila, Republic of the Philippines, M. D. University of Santo Tomas, 1940.
- NEIL GORDON MAC EACHERN, U. S. Air Force, D. V. M. Alabama Polytechnic Institute, 1941.
- FRANCIS NORMAN MACNAMARA, of Lagos, Nigeria, B. A. Cambridge University, 1938; M. A. 1941; M. B. Ch. B. 1941; D. T. M. & H. Edinburgh University, 1947.
- JOHN MAIER, of New York, N. Y., A. B. Harvard University, 1934; M. D. 1938.
- KOCHETTU KURUVILLA MATHEN, of Kottayam, Travancore, India, M. A. Madras University, 1940.
- FREDRIK MELLBYE, of Oslo, Norway, M. D. University of Oslo, 1946.
- JOSÉ BAUTISTA MENDOZA, of Agoo, La Union, Republic of the Philippines, B. S. University of the Philippines, 1930; M. D. 1933; C. P. H. 1936.
- SUSHILA NAYAR, of New Delhi, India, M. B. B. S. Punjab University, 1937; M. D. 1942.
- ALI NOZARI, of Arak, Iran, M. D. University of Tehran, 1944.
- JOHN HARLAND PAUL, of New York, N. Y., Ph. B. Yale University, 1923; M. D. Harvard University, 1927; C. P. H. 1927.
- LA-ONG PAYANANDANA, of Bangkok, Siam, M. B. Chulalongkorn University, 1933; M. P. H. University of Medical Science, 1949.
- ERNEST ARVIL PHILEN, of Sheffield, Ala., B. S. C. E. Alabama Polytechnic Institute, 1931.
- QUO SUNG-KEN, of Tainan, Formosa, China, M. B. Taipeh Medical College, 1926; M. D. Kyoto Imperial University, 1934; Sc. D. University of Paris, 1938.
- EDWIN GLOVER RILEY, of Lakeland, Fla., B. S. Rutgers University, 1935; M. D. University of Chicago, 1940; Ph. D. 1942.
- AURORA OTEYZA RIVERA, of Manila, Republic of the Philippines, M. D. University of the Philippines, 1940.
- DONALD JAMES ROOP, of Baltimore, Md., B. A. Western Maryland College, 1936; M. D. University of Maryland, 1940.
- HILDEGARD IRMA MARIA ROTHMUND, of Stuttgart, Germany, M. D. University of Heidelberg, 1945.
- MOHAMMED SAFDAR, of Sialkot City, Pakistan, B. Sc. Punjab University, 1939; M. B. B. S. 1947.
- SHAMA SASTRY HOLAVANHALLY, of Bangalore, India, M. B. B. S. Mysore University, 1938; D. P. H. Calcutta University, 1941.
- ANDREW FREDERICK SCHEELE, U. S. Army, B. S. M. Georgetown University, 1931; M. D. 1933.
- PRADITH SIDDHICHAL, of Smudprakarn, Siam, M. B. Chulalongkorn University, 1937.
- WILLIAM JOHN STEVENSON, of Belgrave, Australia, L. R. C. P., L. R. C. S. Edinburgh University, 1942; D. T. M. University of Sydney, 1947; D. P. H. 1948.
- BOONCHUAY SUBHAMANI, of Uttaradit, Siam, M. B. University of Medical Science, 1934.
- SUBBARAO ANANTA SWAMY, of Bangalore, India, M. B. B. S. Bombay University, 1937; B. Sc. 1938; D. P. H. Calcutta University, 1941.
- MANGLADEVI TALWAR, of Kotah, India, M. R. C. S. (England) London School of Medicine for Women and Royal Free Hospital, 1930; L. R. C. P. (London) 1930; L. M. Coombe Lying-in Hospital, 1931.
- BHAVONGVIT TANTICHAREEN, of Bangkok, Siam, M. B. University of Medical Science, 1945; M. P. H. 1949.
- HUGO TRUCCO LEE, of Concepcion, Chile, M. D. University of Chile, 1936.
- GLENN SPOKESFIELD USHER, U. S. Public Health Service, A. B. Oberlin College, 1930; M. D. Harvard University, 1934.

CESAR UYLANGCO, of Manila, Republic of the Philippines, A. A. San Beda College, 1937; M. D. University of Santo Tomas, 1942.

RAMON MEÑEZ VILLASIS, of Manila, Republic of the Philippines, A. A. National University, 1936; M. D. University of the Philippines, 1942.

ADOLFO VIVANCO K., of Concepcion, Chile, M. D. University of Chile, 1939.

EDWARD WILLIAM WELCH, U. S. Navy, B. S. in Pharmacy, Loyola University, 1937.

MIRIAM CLARETTA WHITAKER, of Norfolk, N. Y., R. N. Cornell University New York Hospital School of Nursing, 1944; B. S. Cornell University, 1944; M. S. in Ed. Syracuse University, 1947.

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DOCTORS OF PUBLIC HEALTH

WITH TITLES OF THESES

UKKO PENTTI KALERVO KOKKO, of Helsinki, Finland, M. D. Helsinki University, 1944; M. P. H. The Johns Hopkins University, 1948. Bacteriology.

A Mouse Neutralization Test Using a Small Amount of Whole Blood—A Study With the Lansing Strain of Poliomyelitis Virus.

SUSHILA NAYAR, of New Delhi, India, M. B. B. S. Punjab University, 1937; M. D. 1942; M. P. H. The Johns Hopkins University, 1950. Public Health Administration.

Preliminary Study of Maternal Mortality in the State of Maryland Exclusive of Baltimore City, January, 1947–December, 1948.

KISHORE CHANDRA PATNAIK, of Calcutta, India, M. B. B. S. Lucknow University, 1941; D. P. H. Calcutta University, 1943; M. P. H. The Johns Hopkins University, 1949. Public Health Administration.

The Organization and Administration of an Official Health District as a "Field Training Area" (Practice Field) in an Urban Community Associated With a School of Public Health in India.

MARIO PIZZI, of Santiago, Chile, M. D. University of Chile, 1936; M. P. H. The Johns Hopkins University, 1943. Biostatistics.

An Approximate Solution for the Standard Error of LD_{50} as Obtained by the Reed-Muench Method.

BYRON LUDWIG STEGER, U. S. Army, B. S. Ohio State University, 1931; M. D. 1933; M. P. H. The Johns Hopkins University, 1948. Public Health Administration.

A Training Program for the Federal Hospital Executive.

ALBERTA SZALITA-PEMOW, of Paris, France, M. D. Warsaw Medical Faculty, 1936; M. P. H. The Johns Hopkins University, 1948. Public Health Administration.

Attempt at Evaluation of the Psychiatric Needs in the Medical Care Clinic of The Johns Hopkins Hospital.

MARY WALTON, U. S. Public Health Service, B. S. University of Minnesota, 1929; M. D. 1931; M. P. H. The Johns Hopkins University, 1949. Epidemiology.

The Comparability of Population Groups in an Epidemiological Study Designed to Evaluate the Effectiveness of Fly Suppression in the Control of Diarrheal Disease.

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DOCTORS OF MEDICINE

JOHN ALBERT ARCADE, of Whittier, Calif., S. B. University of Notre Dame, 1947.

LEONARD ATKINS, of Belleville, N. J., S. B. Yale University, 1942.

MARY CAROLINE BECKER, of Williamsville, Mo., A. B. Vanderbilt University, 1946.

DORIS LIDZ BERLIND, of New York, N. Y., A. B. Vassar College, 1946.

BILLIE DELORES BICHACOFF, of Fort Wayne, Ind., S. B. Northwestern University, 1942; M. S. University of Chicago, 1945.

SAMUEL BIERN, JR., of Huntington, W. Va., A. B. Princeton University, 1941.

ERNEST ALBERT BOLT, JR., of Worcester, Mass., S. B. University of Massachusetts, 1941.

MARIE BAKER BRITT, of Lumberton, N. C., S. B. Duke University, 1946.

MERIL WATTERS BROWN, of Cedar Falls, Iowa, S. B. Iowa State College, 1943.

ROBERT McCORMICK BROWNE, of Chappaqua, N. Y., A. B. University of Rochester, 1946.

HAIRSPON REED CARROLL, of Rolling Fork, Miss., A. B. Mississippi College, 1941.

GENE UDELLE COHEN, of Harrisburg, Penn., S. B. Lebanon Valley College, 1946.

ISABELLA STEENBURG COLLINS, of Aurora, Neb., A. B. Vassar College, 1944.

- PAUL TAYLOR CONDIT, of Princeton, N. J., A. B. Princeton University, 1940; A. M. 1941.
- MARY CAROLINE CORNER, of Baltimore, Md., A. B. Bryn Mawr College, 1946.
- JOHN DEMPSHER, of Coaldale, Penn., A. B. Washington and Lee University, 1946.
- DAVID HUGH DILLARD, of Spokane, Wash., A. B. Whitman College, 1946.
- THEODORE MICHAEL FELDBERG, of Newark, N. J., A. B. Drew University, 1941.
- ELLIOTT RAPHAEL FISHEL, of Baltimore, Md., S. B. Franklin and Marshall College, 1941.
- JAMES ARTHUR FORD, JR., of Orlando, Fla., A. B. Duke University, 1941.
- WILLIAM BERTRAM FREEDMAN, of Albany, N. Y., A. B. The Johns Hopkins University, 1940; M. S. Rensselaer Polytechnic Institute, 1941.
- LESTER HOWARD GLIEDMAN, of Baltimore, Md., S. B. University of Wyoming, 1939; M. S. 1940.
- WAVERLY SYDNOR GREEN, JR., of Crewe, Va., S. B. University of Richmond, 1941.
- WILLARD FERDINAND GREENWALD, JR., of Woodmere, N. Y., A. B. University of Michigan, 1946.
- JOHN LOCKWOOD GROW, of Binghamton, N. Y., S. B. Union College, 1942.
- OSKAR SIGVART GULBRANDSEN, of Baltimore, Md., S. B. Virginia Polytechnic Institute, 1940.
- STANFORD PAUL HAMPTON, of San Francisco, Calif., A. B. Stanford University, 1946.
- THOMAS GRIFFIN HARDY, JR., of Farmville, Va., A. B. University of Virginia, 1946.
- BASIL THOMAS HARTER, of Oklahoma City, Okla., University of Oklahoma; Texas Christian University.
- FRANK DOWNING HAUBER, of Johnstown, Penn., S. B. Bethany College, 1938.
- BERNARD JACOB HAVERBACK, of Haverhill, Mass., S. B. Massachusetts Institute of Technology, 1946.
- WILLIAM HERBERT HEAD, JR., of Mahanoy City, Penn., S. B. Philadelphia College of Pharmacy and Science, 1943; A. B. Temple University, 1946.
- RICHARD EDWIN HOOVER, of Hampstead, Md., S. B. Pennsylvania State College, 1936.
- JACK HARDWICK O. HOVICK, of Los Angeles, Calif., A. B. University of California, 1941.
- GEORGE BOWDITCH HUNTER, JR., of Washington, D. C., S. B. Massachusetts Institute of Technology, 1937.
- JACK BASKERVILLE IMBODEN, of Morrilton, Ark., Notre Dame University.
- MINTER MORGAN JACKSON, of Radford, Va., A. B. University of Virginia, 1938; M. A. 1939; Ph. D., 1941.
- CAROL GREACEN JOHNSON, of Coatesville, Penn., A. B. Wellesley College, 1944.
- BURRILL NACY JOSEPHS, of Newton Center, Mass., S. B. Tufts College, 1946.
- AMALIA KATSIGIANIS, of Brawley, Calif., A. B. University of Southern California, 1946.
- HARRY CHRIS KIRIAS, of Scranton, Penn., S. B. University of Pittsburgh, 1946.
- GEORGE BRAMPTON KOELLE, of Philadelphia, Penn., S. B. Philadelphia College of Pharmacy and Science, 1939; Ph. D., University of Pennsylvania, 1946.
- LOUIS BAER KRAMER, of Niagara Falls, N. Y., S. B. Niagara University, 1943.
- DORIS VIVIAN LATHAM, of Antioch, Calif., A. B. Stanford University, 1946.
- REX RAPHAEL MARTIN, of Tunnelton, W. Va., S. B. West Virginia University, 1942.
- HELENA MCKIBBEN, of Kirkland, Wash., A. B. Whitman College, 1946.
- ANNE BISHOP MCKUSICK, of Rochester, N. Y., A. B. Cornell University, 1944.
- TIMONA MILLER, of Baltimore, Md., A. B. Stanford University, 1946.
- ALBERT MINZTER, of Newark, N. J., A. B. Princeton University, 1946.
- RUSSELL LEROY MOSELEY, of Evansville, Ind., A. B. Wabash College, 1934; M. S. St. Louis University, 1936; Ph. D. University of Minnesota, 1939.
- WALTER HAMILTON OTTO, JR., of San Jose, Calif., A. B. San Jose State College, 1943.
- HADLEY PARROT, of Hancock Pt., Me., S. B. Harvard University, 1942.
- JOHN EMMETT PETERS, of Houston, Tex., A. B. University of California at Los Angeles, 1940.
- DANIEL WELLS PRATT, of Glendale, Calif., A. B. Pomona College, 1941.
- JOHN BRYAN PRICE, JR., of Kilgore, Tex., A. B. University of Texas, 1946; A. M. 1949.
- FRANCISCO RAMOS-MORALES, of Naranjito, Puerto Rico, S. B. University of Puerto Rico, 1946.
- THOMAS ELMER REICHELDERFER, of Ocean Grove, N. J., S. B. Rutgers University, 1939.
- ROBERT ALFRED SCHIMEK, of Beaver Falls, Penn., S. B. Franklin and Marshall College, 1945.
- JOHN FREDERICK SCHOLER, of Manhattan, Kansas, A. B. Dartmouth College, 1947.
- HERBERT AARON SELENKOW, of Baltimore, Md., S. B. Franklin and Marshall College, 1943.
- CODY LANE SMITH, of Weston, W. Va., A. B. West Virginia University, 1946.
- DAVID WEYHE SMITH, of Carson City, Nev., A. B. University of California, 1946.

MARGARET SIEFFIELD SPIES, of Alvin, Tex., S. B. University of Texas, 1938.
 CHARLOTTE L. R. STODDEN, of Detroit, Mich., S. B. University of Michigan, 1944.
 RICHARD MYRON ULERY, of Riffe, Wash., S. B. State College of Washington, 1939.
 WALTER DEAN WARREN, of Lakeland, Fla., A. B. Dartmouth College, 1947.
 JOHN PLOMA WATKINS, of San Pedro, Calif., A. B. University of California at Los Angeles, 1943.

MARY FALORSI WATT, of Waterbury, Conn., A. B. Barnard College, 1945.
 JOHN GAY WELLS, of Baltimore, Md., S. B. Duke University, 1942.
 CLARENCE JOSEPH WHEELER, JR., of Houston, Tex., S. B. Southern Methodist University, 1941; A. B. 1946.
 JOE WILLIE WIGGINS, of Sidon, Miss., A. B. Millsaps College, 1946.

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MASTERS OF ARTS

WITH TITLES OF ESSAYS

SISTER M. AUDREY AARON, O. S. B., of Atchison, Kans., A. B. Mt. St. Scholastica College, 1934. Romance Languages.
 GEORGE THOMAS ARTOLA, of Baltimore, Md., Romance Languages.
 NORMAN WILLIS ATWATER, of Paterson, N. J., B. S. Rensselaer Polytechnic Institute, 1949. Chemistry.
 VERLON THOMAS BALLINGER, JR., of Richmond, Ind., A. B. Earlham College, 1947. Political Science.
 Indiana: Political Profile 1924-48.
 JOHN LAWRENCE BARRETT, of Lowell, Mass., A. B. Boston College, 1949. Classics.
 WILLIAM BENESCH, of Baltimore, Md., B. A. Lehigh University, 1942. Physics.
 ELIZABETH BROOKE BLACKBURN, of Charles Town, W. Va., A. B. Vassar College, 1931. Writing, Speech and Drama.
 Lest We Forget: A Novel.
 DAVID H. BLOCK, of Gainesville, Fla., B. A. The Johns Hopkins University, 1949. Classics.
 MARVIN ROBERT BRANT, of New York, N. Y., B. A. Columbia University, 1948. Political Economy.
 The International Commercial and Financial Policy of the Italian Corporate State and its Relationship to Economic Development.
 RICHARD JAMES CALHOUN, of Jackson, Tenn., A. B. Peabody College, 1948. English.
 HARRY LAWSON CARR, of Pasadena, Calif., B. A. University of Southern California, 1948. Writing, Speech and Drama.
 Geran: A Collection of Poems.
 JOHN ALEXIE CRANE, JR., of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Writing, Speech and Drama.
 Some Experiments with the Short Story.
 CHARLES NASH CRESAP, of Scarsdale, N. Y., B. S. Massachusetts Institute of Technology, 1942. Chemistry.
 EDWIN EMBREY DANIEL, of Chattanooga, Tenn., A. B. The Johns Hopkins University, 1947. Biology.

OTIS BENSON DAVIS, of Kent, Conn., A. B. Princeton University, 1946. English.
 CLARENCE TAYLOR DEHAVEN, of Baltimore, Md., A. B. Western Maryland College, 1930. Writing, Speech and Drama.
 Valley of the Shadow: A Play in Three Acts and an Epilogue.
 ANTHONY JOHN DELORENZO, of Baltimore, Md., B. A. Wabash College, 1946. Psychology.
 JOHN SEBASTIAN DERR, of Frederick, Md., A. B. The Johns Hopkins University, 1943. Physics.
 CHARLES FELDMAN, of Baltimore, Md., A. B. The Johns Hopkins University, 1944. Physics.
 DORIS ANNE FORNACI, of Baltimore, Md., B. S. The Johns Hopkins University, 1949. Writing, Speech and Drama.
 François Mauriac's "Asmodée": A Translation of the Play, with Introduction and Preface.
 LEWIS B. FRANK, of Lancaster, Penn., A. B. Franklin and Marshall College, 1945. Psychology.
 RAYMOND CYRIL FRANKE, of Milwaukee, Wis., B. A. University of Wisconsin, 1949. Writing, Speech and Drama.
 Dark World and Wide: A Collection of Short Stories.
 JOHN FRANK GALLAGHER, of Farmersville, Tex., B. A. Hamilton College, 1948. English.
 JOSEPH MATTHEW GEARY, S. J., of San Francisco, Calif., B. A. Gonzaga University, 1940; M. A. 1941. Classics.
 CLIVE EDWARD GLOVER, of Fort William, Ont., Canada, B. A. University of Western Ontario, 1949. International Relations.
 The Role of the United Nations Commission for Indonesia.
 CLARA ERNESTINE GREYER, of Baltimore, Md., A. B. Goucher College, 1931. Education.
 ROBERTSON GRISWOLD, JR., of Baltimore, Md., B. A. Williams College, 1942. English.
 RICHARD EDWARD GROVE, of Winchester, Va., B. S. Randolph-Macon College, 1947. Physics.

- NATALIE GURNEY, of London, England. International Relations.
- History of the Territorial Dispute between Siam and French Indo-China and Post-War Developments in the Disputed Territories.
- PATRICIA JEAN HANLEY, of Seattle, Wash., B. A. University of Washington, 1949. Writing, Speech and Drama.
- Thirty Poems.
- JOHN ROBERT HARRISON, of Arlington, Va., A. B. American University, 1948. Biology.
- GORDON THOMAS HEISTAD, of White Lake, Wis., B. A. Concordia College, 1948. Psychology.
- J. HARRY HILL, of Johnston, R. I., A. B. Brown University, 1949. Psychology.
- MARY ELIZABETH HILL, of Upperco, Md., B. A. Smith College, 1921. Education.
- MANLY JOHNSON, of Ann Arbor, Mich., B. A. University of Michigan, 1946. Writing, Speech and Drama.
- A Collection of Poems.
- CHARLES KATLIN, of Brooklyn, N. Y., B. A. Brooklyn College, 1947. Geology.
- RALPH ELWOOD KEIRSTEAD, JR., of Wethersfield, Conn., A. B. Bowdoin College, 1948. Mathematics.
- ALBERT WILLIAM LUTZ, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Chemistry.
- JEROME FRANCIS MARGOLIUS, of Washington, D. C., B. A. George Washington University, 1948. Art.
- HENRY DESMOND MARTIN, of Montreal, Que., Canada, B. A. McGill University, 1934. History.
- Chinghis Khan.
- JOHN MARSHALL MARTIN, JR., of Martin, Tenn., B. A. University of Tennessee, 1939; LL. B., 1948. Political Science.
- A Review of Some Selected Aspects of Statutory Interpretation.
- GEORGE EDWARD McDONOUGH, of Bridgeport, Conn., A. B. University of California, 1949. Writing, Speech and Drama.
- A Collection of Poems.
- JOHN GILBERT McDONOUGH, of Baltimore, Md., A. B. The Johns Hopkins University, 1937. Education.
- RICHARD WILLIAM MCQUAID, of Towson, Md., A. B. University of California, 1943. Chemistry.
- FRANCIS ALEXANDER McKEOWN, of Merchantville, N. J., A. B. University of Pennsylvania, 1948. Geology.
- VIRGINIA MATTHEWS McLEOD, of Salt Lake City, Utah, A. B. University of Utah, 1944. Writing, Speech and Drama.
- Concentric Worlds in "Remembrance of Things Past."
- KARL MENDEL, JR., of Dallas, Tex., B. A. Southern Methodist University, 1942. History.
- The Ultra-Tory Opposition in the House of Lords to the Catholic Emancipation of 1829.
- JUDY MENDELS, of Amsterdam, Netherlands, University of Amsterdam. German.
- The Historical Background of Conrad Ferdinand Meyer's "Protestant Saints."
- ANNE STUBBLEFIELD MORRISSETT, of St. Joseph, Mich., A. B. Barnard College, 1947. Classics.
- GEORGE HAMILTON MOWBRAY, of Baltimore, Md., B. A. The Johns Hopkins University, 1950. Psychology.
- LOU BARKER NOLL, of South Orange, N. J., A. B. Princeton University, 1948. Writing, Speech and Drama.
- Cold Pastoral: A Collection of Poems.
- WILLIAM FRANCIS NUGENT, of Baltimore, Md. History.
- The Family of DeMarisco.
- VIVIAN O'BRIEN, of Baltimore, Md., A. B. Goucher College, 1945. Mathematics.
- ANGELA DAVIES PARDINGTON, of Winston-Salem, N. C., B. A. Agnes Scott College, 1947. Classics.
- RICHARD EUGENE PATTERSON, of York, Penn., B. A. Gettysburg College, 1948. Chemistry.
- NORMAN L. RABINOVITCH, of Montreal, Que., Canada, B. Sc. Sir George Williams College, 1948. Mathematics.
- WILMOTT RAGSDALE, of Baltimore, Md., B. A. University of Washington, 1949. Writing, Speech and Drama.
- Small Fear: A Novel.
- JULIA VAN NESS RANDALL, of Towson, Md., A. B. Bennington College, 1945. Writing, Speech and Drama.
- Forty Poems.
- DUNCAN CROSBY ROBERTSON, of Toronto, Ont., Canada, 1947. English.
- ROBERT EARL RIVENBARK, of Savannah, Ga., A. B. Oglethorpe University, 1942. Writing, Speech and Drama.
- Invisible Cord: A Novel.
- H. WILLIAM SAUSE, of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Chemistry.
- NAFI SAYEM-ADDAHR, of Aleppo, Syria, B. A. American University of Beirut, 1948. Political Economy.
- Post-War Exchange Problems and Monetary Adjustment in Syria.
- KARL MARX SCHMIDT, JR., of Utica, N. Y., A. B. Colgate University, 1948. Political Science.
- The 1948 Progressive Party: A Study in Political Organization.
- GEORGE FRANK SCHNEIDER, of Sterling, Ohio, B. A. College of Wooster, 1949. Geology.
- JOSEPH F. SCHREIBER, JR., of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Geology.
- ADOLPH SELIGMAN, of Baltimore, Md., A. B. The Johns Hopkins University, 1939. Education.
- SIDNEY SHAPIRO, of Washington, D. C., B. A. University of California, 1948. Writing, Speech and Drama.
- The Acrobats: A Collection of Poems.
- JOEL ROBERT SIGEL, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Chemistry.

DOROTHY MELVILLE SINCLAIR, of Baltimore, Md., A. B. Goucher College, 1933; B. S. Columbia University, 1942. History.

Conciliarism, Gallicanism, and the Pragmatic Sanction of Bourges, 1431-1452.

KATHLEEN KELSO SLINGLUFF, of Baltimore, Md., A. B. Vassar College, 1926. History.

Johann Sturm's School in Strassburg: A Study in Sixteenth Century Education.

EUGENE BERTRAM STERLING, of Crisfield, Md., A. B. Washington College, 1948. Education.

ALDONA S. VANDERLAIN, of Baltimore, Md., B. S. The Johns Hopkins University, 1945. Writing, Speech and Drama. The Seventh Circle: A Play.

ALFRED VIOLA, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Chemistry.

ROBERT WINTHROP WATSON, of Passaic, N. J., B. A. Williams College, 1946. English.

DAVID RHODS WEIMER, of Mansfield, Ohio, B. A. Oberlin College, 1949. English.

WILLIAM MAXWELL WILSON, of West Vancouver, B. C. Canada, B. Comm. McGill University, 1947. Political Economy.

Canada's Foreign Exchange Conservation Program.

WALTER RUSSELL WINFREE, JR., of Hampton, Va., B. A. University of Oklahoma, 1948. Writing, Speech and Drama.

Some of the Kinds.

WILLIAM HOOD WISHMEYER, of Media, Penn., A. B. The Johns Hopkins University, 1948. Writing, Speech and Drama.

Five Chapters of a Projected Novel.

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DOCTORS OF PHILOSOPHY

WITH TITLES OF DISSERTATIONS

FREYDOUN AZADI APSHAIR, of Tehran, Iran, B. S. in M. E. University of Idaho, 1936; M. S. University of Chicago, 1946. Geology.

Taxonomic Revision of the Cretaceous and Cenozoic Tellinidae.

RALPH ROGER BERG, of Great Neck, Long Island, N. Y., B. E. Yale University, 1944. Chemical Engineering.

Heat Transfer to Fluids in Coiled Tubing in the Streamline Flow Region.

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